

To: CN=Gregory Oberley/OU=EPR/OU=R8/O=USEPA/C=US;Ayn Schmit/EPR/R8/USEPA/US@EPA;CN=Nathan Wiser/OU=R8/O=USEPA/C=US@EPA;CN=Kate Fay/OU=R8/O=USEPA/C=US@EPA;CN=Richard Mylott/OU=OCP/OU=R8/O=USEPA/C=US@EPA;CN=Mike Wireman/OU=R8/O=USEPA/C=US@EPA;CN=Darcy Campbell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Gregory Oberley/OU=EPR/OU=R8/O=USEPA/C=US;CN=Carol Russell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Tricia Pfeiffer/OU=R8/O=USEPA/C=US@EPA;CN=Dan Jackson/OU=R8/O=USEPA/C=US@EPA;CN=Steven Pratt/OU=R8/O=USEPA/C=US@EPA[]; yn Schmit/EPR/R8/USEPA/US@EPA;CN=Nathan Wiser/OU=R8/O=USEPA/C=US@EPA;CN=Kate Fay/OU=R8/O=USEPA/C=US@EPA;CN=Richard Mylott/OU=OCP/OU=R8/O=USEPA/C=US@EPA;CN=Mike Wireman/OU=R8/O=USEPA/C=US@EPA;CN=Darcy Campbell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Gregory Oberley/OU=EPR/OU=R8/O=USEPA/C=US;CN=Carol Russell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Tricia Pfeiffer/OU=R8/O=USEPA/C=US@EPA;CN=Dan Jackson/OU=R8/O=USEPA/C=US@EPA;CN=Steven Pratt/OU=R8/O=USEPA/C=US@EPA[]; N=Nathan Wiser/OU=R8/O=USEPA/C=US@EPA;CN=Kate Fay/OU=R8/O=USEPA/C=US@EPA;CN=Richard Mylott/OU=OCP/OU=R8/O=USEPA/C=US@EPA;CN=Mike Wireman/OU=R8/O=USEPA/C=US@EPA;CN=Darcy Campbell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Gregory Oberley/OU=EPR/OU=R8/O=USEPA/C=US;CN=Carol Russell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Tricia Pfeiffer/OU=R8/O=USEPA/C=US@EPA;CN=Dan Jackson/OU=R8/O=USEPA/C=US@EPA;CN=Steven Pratt/OU=R8/O=USEPA/C=US@EPA[]; N=Kate Fay/OU=R8/O=USEPA/C=US@EPA;CN=Richard Mylott/OU=OCP/OU=R8/O=USEPA/C=US@EPA;CN=Mike Wireman/OU=R8/O=USEPA/C=US@EPA;CN=Darcy Campbell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Gregory Oberley/OU=EPR/OU=R8/O=USEPA/C=US;CN=Carol Russell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Tricia Pfeiffer/OU=R8/O=USEPA/C=US@EPA;CN=Dan Jackson/OU=R8/O=USEPA/C=US@EPA;CN=Steven Pratt/OU=R8/O=USEPA/C=US@EPA[]; N=Richard Mylott/OU=OCP/OU=R8/O=USEPA/C=US@EPA;CN=Mike Wireman/OU=R8/O=USEPA/C=US@EPA;CN=Darcy Campbell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Gregory Oberley/OU=EPR/OU=R8/O=USEPA/C=US;CN=Carol Russell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Tricia Pfeiffer/OU=R8/O=USEPA/C=US@EPA;CN=Dan Jackson/OU=R8/O=USEPA/C=US@EPA;CN=Steven Pratt/OU=R8/O=USEPA/C=US@EPA[]; N=Mike Wireman/OU=R8/O=USEPA/C=US@EPA;CN=Darcy Campbell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Gregory Oberley/OU=EPR/OU=R8/O=USEPA/C=US;CN=Carol Russell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Tricia Pfeiffer/OU=R8/O=USEPA/C=US@EPA;CN=Dan Jackson/OU=R8/O=USEPA/C=US@EPA;CN=Steven Pratt/OU=R8/O=USEPA/C=US@EPA[]; N=Darcy Campbell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Gregory Oberley/OU=EPR/OU=R8/O=USEPA/C=US;CN=Carol Russell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Tricia Pfeiffer/OU=R8/O=USEPA/C=US@EPA;CN=Dan Jackson/OU=R8/O=USEPA/C=US@EPA;CN=Steven Pratt/OU=R8/O=USEPA/C=US@EPA[]; N=Gregory Oberley/OU=EPR/OU=R8/O=USEPA/C=US;CN=Carol Russell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Tricia Pfeiffer/OU=R8/O=USEPA/C=US@EPA;CN=Dan Jackson/OU=R8/O=USEPA/C=US@EPA;CN=Steven Pratt/OU=R8/O=USEPA/C=US@EPA[]; N=Carol Russell/OU=EPR/OU=R8/O=USEPA/C=US@EPA;CN=Tricia Pfeiffer/OU=R8/O=USEPA/C=US@EPA;CN=Dan Jackson/OU=R8/O=USEPA/C=US@EPA;CN=Steven

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Cc: []
From: CN=Marcella Hutchinson/OU=R8/O=USEPA/C=US
Sent: Wed 6/6/2012 3:44:28 PM
Subject: Fw: [WQ News] Squeezing the Shale: Water hazards from fracking may depend on contractors
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FYI

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Change is the only constant.

- Heraclitus

----- Forwarded by Marcella Hutchinson/R8/USEPA/US on 06/06/2012 09:43 AM -----

From: Loretta Lohman <lorettalohman@gmail.com>
To: wq-news@googlegroups.com
Date: 06/06/2012 08:08 AM
Subject: [WQ News] Squeezing the Shale: Water hazards from fracking may depend on contractors
Sent by: wq-news@googlegroups.com

Squeezing the Shale: Water hazards from fracking may depend on contractors

Posted: June 5, 2012 - 7:34pm | Updated: June 6, 2012 - 12:54am

By WATER BY STACIA SMITH

AVALANCHE-JOURNAL

The U.S. Environmental Protection Agency is conducting a study to better understand the potential impacts of hydraulic fracturing on drinking water and groundwater, according to the agency's website. But a study released in February funded by the Energy Institute at the University of Texas at Austin concluded fracking is as harmful or safe as the companies using the process.

The study added it's not the process but pre-existing issues or careless practices that put groundwater at risk.

Andrea Morrow, public information officer for the Texas Commission on Environmental Quality, said that although TCEQ does not regulate groundwater, fracking has not been a major issue for surface water and drinking water sources in Texas.

Christopher Salice, an assistant professor of ecology and environmental toxicology at the Institute of Environmental and Human Health at Texas Tech, said he does not believe the EPA is doing everything it can to protect humans from potential adverse affects of fracking at the present time.

"I know that they're more strongly considering some type of legislative action," Salice said, "but to date, there hasn't been really anything, so I'd have to say I don't think they're doing enough to protect human health and the environment at the moment."

Salice said he believes there is still great uncertainty when it comes to fracking and groundwater that needs to be figured out before moving forward.

"You're pumping all these chemicals into the ground, and there's just not a lot known as to what the consequences might be," he said.

Salice's concerns are further validated by an EPA news release from December 2011 where two deep water monitoring wells found contamination in a Pavillion, Wyo., aquifer.

The draft analysis of data from the EPA's groundwater investigation detected synthetic chemicals, like glycols and alcohols, consistent with gas production and hydraulic fracturing fluids. The investigation also found benzene concentrations well above Safe Drinking Water Act standards and high methane levels.

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